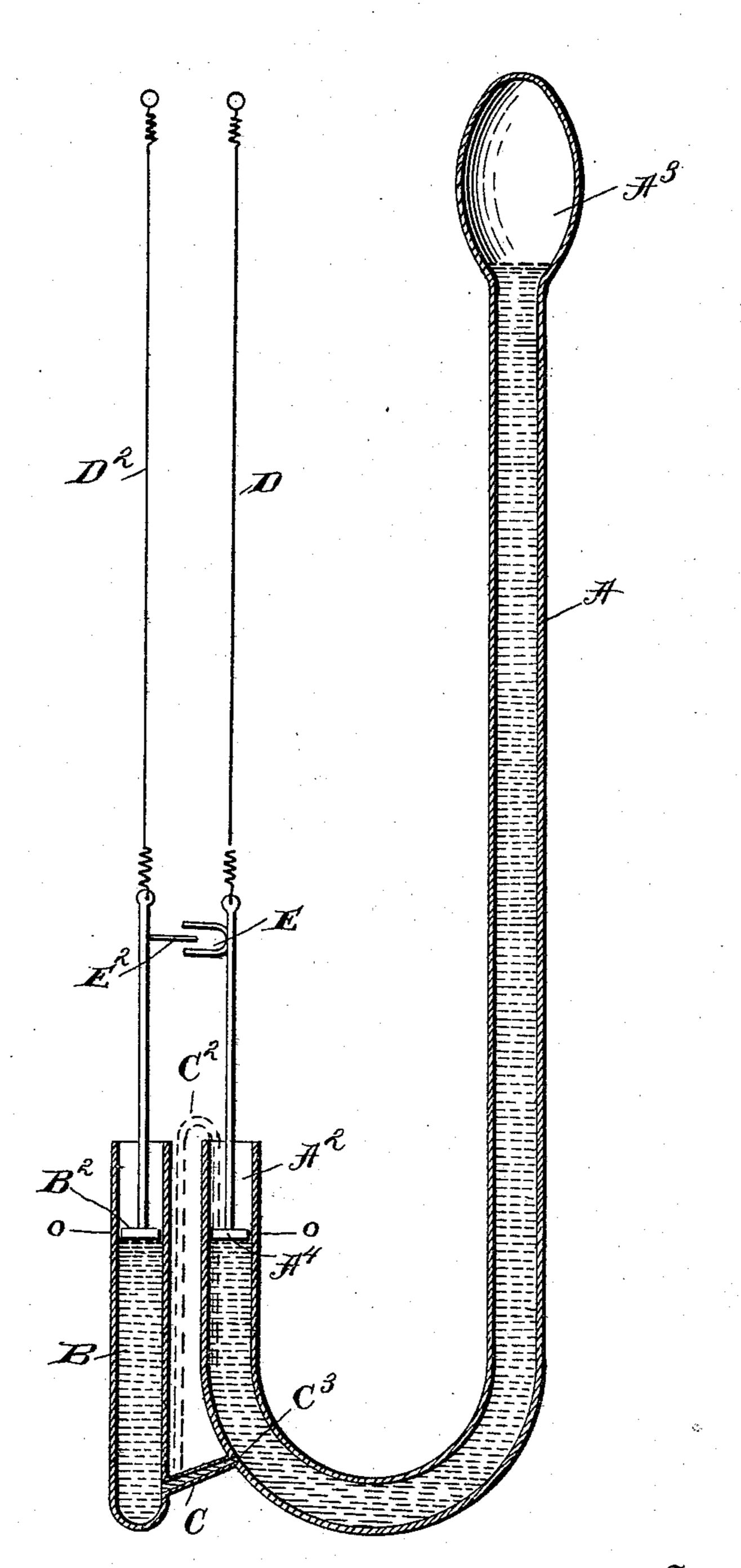
(No Model.)

W. T. FLOURNOY. BAROMETER.

No. 572,536.

Patented Dec. 8, 1896.



Witnesses Leo. C. Frech. Mollamer. Milian J. Hournoy.

Ty St. + So. Haselline, attorneys.

United States Patent Office.

WILLIAM T. FLOURNOY, OF MARIONVILLE, MISSOURI.

BAROMETER.

SPECIFICATION forming part of Letters Patent No. 572,536, dated December 8, 1896.

Application filed August 10, 1896. Serial No. 602,359. (No model.)

To all whom it may concern: .

Be it known that I, WILLIAM T. FLOUR-NOY, a citizen of the United States, residing at Marionville, in the county of Lawrence and 5 State of Missouri, have invented certain new and useful Improvements in Barometers and Storm-Indicators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable 10 others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in barometers, the object of which is to so arrange the contents of a barometer that its 15 quick or sudden change of pressure previous to a tornado, cyclone, hurricane, or severe local storm will ring a bell or sound an alarm. This may be accomplished in various ways, but I prefer the device and mechanism 20 illustrated in the accompanying drawing, forming a part of this specification, in which the figure is a longitudinal vertical section of a barometer, showing an attachment for accomplishing this object.

My invention is a tornado, cyclone, and storm indicator. It has been observed that the barometer changes suddenly or rapidly immediately prior to a storm that has great

force.

My invention permits the ordinary changes in the atmosphere without sounding an alarm, but if the change is rapid, indicating the near approach of a severe storm, the object of this invention is to sound an alarm or ring a bell, 35 which may be accomplished by various devices. I prefer the one illustrated in the accompanying drawing, in which—

A is an ordinary barometer. I prefer an enlargement A³ of the tube, having the vacuum 40 for making a greater movement in the ba-

rometer.

B is a secondary tube connected by a tube C with a very small hole or opening C⁸. Tube C may be formed into a siphon C² for attach-45 ing to any ordinary barometer. The tube B may be made as large as desired and also the opening C³ in the connection C or C², so as

to cause the fluid in tube A^2 and tube B to remain of equal or nearly equal height in ordinary changes of the weather; but the tube 50 B is made of sufficient size and the opening C³ so small that in case of a sudden atmospheric change, as that immediately preceding a storm, the fluid in tube B will move very slowly compared with that in tube A². This 55 variation in the tubes A² and B, when sufficient in amount to indicate a storm approaching, may be indicated by any suitable device to set off an alarm.

I use floats A⁴ and B² in each of the tubes 60 A² and B and connect them with wires D D². On one is a fork E, on the other a tongue E^2 . In normal or ordinary changes in the atmosphere they move up and down together, but in sudden changes float B² moves so slowly 65 compared with float A^4 that the tongue E^2 will come in contact with the fork E, and said fork and tongue are properly charged with electricity, so as to ring an alarm when the points meet as stated.

Having thus described my invention, what I claim as new, and desire to secure by Letters

Patent, is—

1. A barometer having two surfaces which move in the same direction one more rapidly 75 than the other in case of quick changes of atmospheric pressure.

2. A barometer having two surfaces combined with a connecting-tube having a small orifice and electrical-bell wires connecting 80 with floats upon the surface substantially as

and for the purpose specified.

3. In combination with a barometer a second tube, B, connected with a tube, C, having a small orifice, and floats, A4, and B2, con-85 nected with wires D D2, having a fork E, and a tongue, E², all substantially as shown and described for the purpose specified.

In testimony whereof I affix my signature

in presence of two witnesses.

WILLIAM T. FLOURNOY.

Witnesses:

S. A. HASELTINE, SHERWIN HASELTINE.